

**What is claimed is:**

1. A modified polyester filament, which is formed by spinning the polyester resin composed of ethylene terephthalate more than 85 mol% as main component repeating unit, and component A organic sulfonate shown as the formula listed below



[ wherein R is selected from alkyl group of carbon 3 to 30, aromatic group and alkyl aromatic group of carbon 7 to 40; M is selected from alkali metal, alkali earth metal ] and component B polyalkylene glycol and satisfies the following three conditions

(1) the content of said component A  $\text{RSO}_3\text{M}$  is from 0.4 weight% to 5 weight%;

(2) the content of said component B polyalkylene glycol is from 0.4 weight% to 5 weight%;

(3) said polyester filament obtained by spinning is subjected to alkali treatment to reduce the weight in an amount of 5-45% with 60~130°C alkali solution of concentration 0.2 to 8.0 weight%, dyeing to get polyester filament having 0.1~0.001 d.p.f. (denier per filament) ultrafine fluffs thereon

2. The modified polyester filament according to claim 1, wherein component A is selected from sodium alkyl (C<sub>12</sub> to C<sub>15</sub>) sulfonate.

3. The modified polyester filament according to claim 1, wherein component B is selected from polyethylene glycol of molecular weight from 5,000 to 50,000.

4. The modified polyester filament according to claim 1, wherein component A and component B are added in the stage of manufacturing polyester.

5. A hetero-shrinkage conjugate yarn, which is formed by combining the filament of claim 1 with filament having high boiling water shrinkage greater than 8% and greater than that of the filament of claim 1, drawing and twisting.

6. The hetero-shrinkage conjugate yarn according to claim 5, wherein the hetero-shrinkage conjugate yarn is hetero-shrinkage conjugate textured yarn.

7. The hetero-shrinkage conjugate yarn according to claim 5, wherein the hetero-shrinkage conjugate yarn is hetero-shrinkage conjugate filament.

8. A fabric woven by using the modified polyester filament according to claim 1.

9. A fabric woven by using the hetero-shrinkage conjugate yarn according to claim 5
10. A fabric woven by using the hetero-shrinkage conjugate yarn according to claim 6.
11. A fabric woven by using the hetero-shrinkage conjugate yarn according to claim 7